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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/595,450

06/21/2007

Hasan B. Alam

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Rutan & Tucker, LLP.

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SUITE 1400

COSTA MESA, CA 92626

EXAMINER

TREYGER, ILYA Y

ART UNIT

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PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 10/595,450	Applicant(s) ALAM ET AL.	
	Examiner ILYA Y. TREYGER	Art Unit 3761	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 21 June 2007.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-25 is/are pending in the application.
- 4a) Of the above claim(s) 3-5 is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1, 2 and 7-25 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on _____ is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date <u>02/04/2008; 01/23/2008; 01/11/2008; 05/17/2007;</u> | 6) <input type="checkbox"/> Other: _____ |
| <u>10/19/2006.</u> | |

DETAILED ACTION

1. Claims 1, 2, and 6-25 of the US Patent Application No. 10/595,450 filed 06/21/2007 are presented for examination.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

3. Claims 1, 2, 6-14, 16-22, 24, and 25 are rejected under 35 U.S.C. 102(b) as being anticipated by Pena (US 4,029,095).

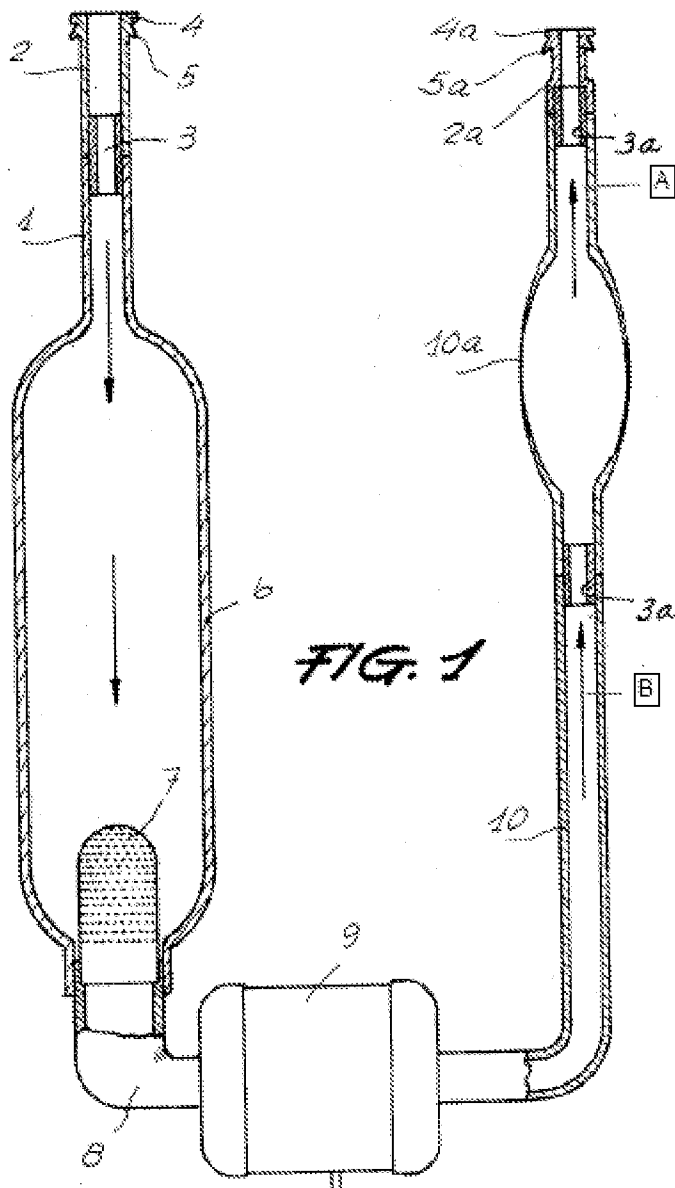
4. In Re claim 1, Pena discloses device for circulating treating fluid through the nasal fossae, which is a body cavity, comprising:

a manually operable pump means including an elastic bulb 12a (Fig. 1) adapted to be manually compressed;

an inflow conduit B and outflow conduit A connected to the bulb by connectors 3a (Fig. 1); and

a pair of one-way valves respectively situated at the suction inlet and pressure outlet for providing for flow of fluid only from the suction tubular means into the elastic bulb during expansion of the latter and for flow of fluid only out of said elastic bulb into said pressure tubular means during manual compression of said elastic bulb (Col. 2, lines 14-26; Col. 6, lines 43-53).

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5. In Re claim 2, Pena discloses the manual pump wherein the inflow conduit is selected from the group consisting of a standard chest tube, an endotracheal tube, and/or a catheter, since both a standard chest tube, an endotracheal tube, and/or a catheter are variations of the conduit.

6. In Re claims 6-8, Pena discloses the manual pump comprising the bulb 10a fully capable of being compressed by one hand (claim 6), two hands (claim 7), or by using foot (claim 8) (See Fig. 1).

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7. In Re claim 9, Pena discloses the manually operable pump wherein the exterior of the compressible portion is covered by a textured surface. In accordance with definition the texture is the appearance and feel of a surface (See *The American Heritage® Dictionary of the English Language, Fourth Edition*). Since the pump body 10a is disclosed as operated by the hand it is designed to be felt, and thus the pump body surface is textured.

8. In Re claim 10, Pena discloses a manually operable pump fully capable of removing a body fluid components, since the apparatus of Pena is disclosed as intended to remove liquid from the nasal cavity and comprises the same structure, as claimed by Applicants.

9. In Re claim 11, Pena discloses the manually operable pump connected to the external device 9 (Fig. 1), and thus is fully capable of being connected to an autotransfusion device.

10. In Re claim 12, Pena discloses the manually operable pump wherein a pair of one-way valves are providing one-way flow (Col. 2, lines 21-26), and therefore is fully capable of providing the flow by gravity alone if positioned vertically.

11. In Re claim 13, Pena discloses the pump which is effective to remove fluid from said body cavity of a subject using manually provided power alone, since the pump is disclosed as manually operable (Col. 2, lines 16-26).

12. In Re claim 14, Pena discloses the manually operable pump comprising a conduit 10 (Fig. 1) fully capable of being connected to the additional manually operable pump.

13. In Re claim 16, since the manually operable pump system of Pena is disclosed as provided, Pena discloses the method of removing fluid from a body cavity, the method comprising:

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providing a manually operable pump means including an elastic bulb 12a (Fig. 1) adapted to be manually compressed;

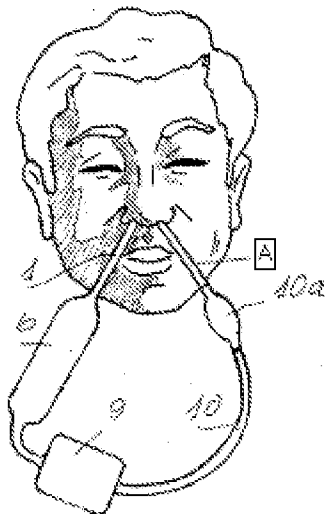
an inflow conduit B and outflow conduit A connected to the bulb by connectors 3a (Fig. 1); and

a pair of one-way valves respectively situated at the suction inlet and pressure outlet for providing for flow of fluid only from the suction tubular means into the elastic bulb during expansion of the latter and for flow of fluid only out of said elastic bulb into said pressure tubular means during manual compression of said elastic bulb (Col. 2, lines 14-26; Col. 6, lines 43-53);

inserting the distal end of the inflow conduit into the body cavity (Fig. 3); and

manually compressing the pump body intermittently to remove fluid from the body cavity.

FIG. 3



14. In Re claim 17, Pena discloses device for circulating treating fluid through the nasal fossae, which is a body cavity, comprising:

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a manually operable pump means including an elastic bulb 12a (Fig. 1) adapted to be manually compressed;

an inflow conduit B and outflow conduit A connected to the bulb by connectors 3a (Fig. 1); and

a pair of one-way valves respectively situated at the suction inlet and pressure outlet for providing for flow of fluid only from the suction tubular means into the elastic bulb during expansion of the latter and for flow of fluid only out of said elastic bulb into said pressure tubular means during manual compression of said elastic bulb (Col. 2, lines 14-26; Col. 6, lines 43-53).

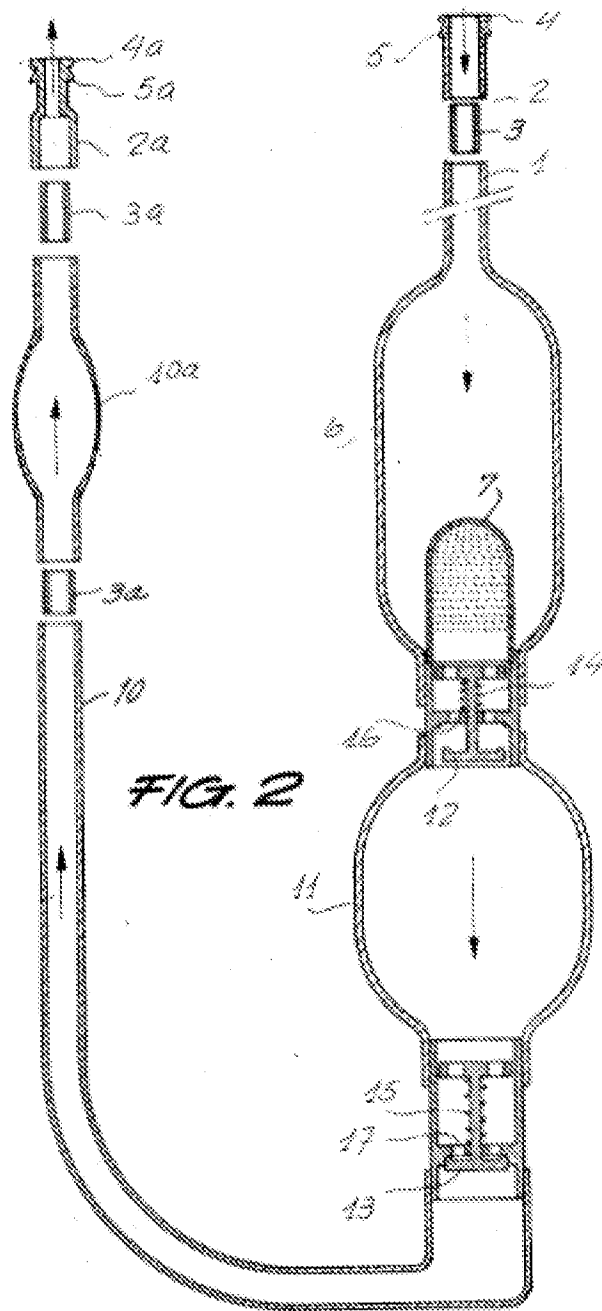
15. In Re claim 18, Pena discloses the pump comprising:

a conduit 2a (Fig. 2) fully capable of being inflow conduit;

a conduit 10 (Fig. 2) fully capable of being outflow conduit;

a fluid receptacle 6 (Col. 2, line 64; Figs. 1 and 2) and

a pair of one-way valves respectively situated at the suction inlet and pressure outlet for providing for flow of fluid only from the suction tubular means into the elastic bulb during expansion of the latter and for flow of fluid only out of said elastic bulb into said pressure tubular means during manual compression of said elastic bulb (Col. 2, lines 14-26; Col. 6, lines 43-53).



16. In Re claims 19 and 20, Pena discloses the system for removing fluids from a body cavity, comprising:

a fluid receptacle 6 (Col. 2, line 64; Figs. 1 and 2) fully capable of receiving fluids from the body cavity; and

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a manually operable pump in fluid communication with both the body cavity and the fluid receptacle, operation of the pump generating a negative pressure relative to the body cavity (Col. 2, lines 14-26; Col. 6, lines 43-53), wherein the manually operable pump comprises a pump body 10a (Figs. 1 and 2) comprising a pair of one-way valves respectively situated at the suction inlet and pressure outlet for providing for flow of fluid only from the suction tubular means into the elastic bulb during expansion of the latter and for flow of fluid only out of said elastic bulb into said pressure tubular means during manual compression of said elastic bulb (Col. 2, lines 21-26) (claim 20).

17. In Re claim 21, Pena discloses the system comprising a tube A (Fig. 3) which is interpreted as a implantable catheter, since it is disposed into the nasal cavity.

18. In Re claim 22, Pena discloses the system comprising two connectors 3a (Fig. 2) connecting conduits 2a and 10 to the appropriate ends of the pump body 10 (Fig. 2).

19. In Re claim 24, since the system of Pena is disclosed as provided and assembled, Pena discloses the method of removing fluid from a body cavity comprising:

attaching a manually operable pump to a proximal end of an implanted catheter, the manually operable pump in fluid communication with a fluid receptacle;

generating a negative pressure via the manually operable pump to initiate fluid flow from the body cavity toward the fluid receptacle; and

positioning the manually operable pump to flow fluid from the body cavity to the fluid receptacle with the aid of gravity.

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20. In Re claim 25, Pena discloses the step of generating a negative pressure comprises compressing a pump body interposed between two one-way valves to initiate unidirectional fluid flow from the body cavity to the fluid receptacle (Col. 2, lines 14-26; Col. 6, lines 43-53).

Claim Rejections - 35 USC § 103

21. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

22. The factual inquiries set forth in *Graham v. John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

1. Determining the scope and contents of the prior art.
2. Ascertaining the differences between the prior art and the claims at issue.
3. Resolving the level of ordinary skill in the pertinent art.
4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

23. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

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24. Claims 15 and 23 are rejected under 35 U.S.C. 103(a) as being unpatentable over Pena (US 4,029,095).

25. In Re claim 15, Pena discloses the claimed invention discussed above, but does not expressly disclose the particular parameter of the negative pressure range generating by the pump.

The particular parameter of the negative pressure range generating by the pump depends of the particular quantity of liquid intended to be removed from the body cavity, and therefore is a result effective variable and a matter of optimization.

It would have been obvious to one having ordinary skill in the art at the time the invention was made to use the pump generating the negative pressure range depending of the particular quantity of liquid intended to be removed from the body cavity, since discovering the optimum or workable ranges involves only routine skill in the art.

26. In Re claim 23, Pena discloses the claimed invention discussed above, but does not expressly disclose the particular parameter of the fluid flow range generating by the pump.

The particular parameter of the fluid flow range generating by the pump depends of the particular disease intended to be treated and the particular type of treatment required, and therefore is the matter of optimization.

It would have been obvious to one having ordinary skill in the art at the time the invention was made to use the pump generating the fluid flow range depending of the particular clinical diagnosis and treatment required, since discovering the optimum or workable ranges involves only routine skill in the art.

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Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to ILYA Y. TREYGER whose telephone number is (571)270-3217. The examiner can normally be reached on 7:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tatyana Zalukaeva can be reached on 571-272-1115. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Ilya Y Treyger/
Examiner, Art Unit 3761

/Tatyana Zalukaeva/
Supervisory Patent Examiner, Art Unit 3761